

2665 41

AMENDMENT TRANSMITTAL LETTER (Large Entity)

Applicant(s): S. Kamiya

Docket No.

02150024AA

Application No.

09/734,695

Filing Date

December 13, 2000

Examiner

A. Hsu

Customer No.

30743

Group Art Unit

2665

Confirmation No.

6529

Invention: PACKET SWITCH AND PACKET SWITCHING METHOD

RECEIVED

OCT 04 2004

COMMISSIONER FOR PATENTS:

Technology Center 2600

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	20 -	20 =	0 x	\$18.00	\$0.00
INDEP. CLAIMS	2 -	3 =	0 x	\$86.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0.00

- ☒ No additional fee is required for amendment.
- ☐ Please charge Deposit Account No. _____ in the amount of _____
- ☐ A check in the amount of _____ to cover the filing fee is enclosed.
- ☒ The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-2041
- ☒ Any additional filing fees required under 37 C.F.R. 1.16.
- ☒ Any patent application processing fees under 37 CFR 1.17.


Signature

Dated: September 27, 2004

Clyde R Christofferson
Reg No. 34,138
Whitham, Curtis & Christofferson, P.C.
11491 Sunset Hills Road, Suite 340
Reston, Virginia 20190
703-787-9400

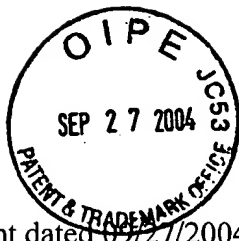
I certify that this document and fee is being deposited on with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature of Person Mailing Correspondence

HAND DELIVERED

Typed or Printed Name of Person Mailing Correspondence

cc:



-1-

11-355382
Amendment dated 09/27/2004

09/734,695
Reply to office action mailed 08/03/2004

02150024aa

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of
Satoshi Kamiya

Serial No. 09/734,695
Filed December 13, 2000

For PACKET SWITCH AND PACKET SWITCHING METHOD

Mail Stop Non-Fee Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Group Art Unit 2665
Examiner A. Hsu

RECEIVED

OCT 04 2004

Technology Center 2600

AMENDMENT UNDER 37 C.F.R. §1.111

Sir:

In response to the Office Action mailed August 3, 2004, please amend the
above-identified patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are indicated by the notation "currently amended" in the
listing of claims beginning on page 8 of this paper.

Remarks begin on page 15 of this paper.

11-355382
Amendment dated 09/27/2004

09/734,695

02150024aa
Reply to office action mailed 08/03/2004

Amendments to the Specification:

Please replace the paragraph beginning at page 6, line 4, with the following rewritten paragraph:

In the shown example one frame ~~is consist~~ consists of four time slots and the frame pulse 21 is input in four time slot ~~period~~ periods. Also, the super frame pulse 2 ~~does is~~ is not be used in the shown example.

Please replace the paragraph beginning at page 12, line 15, with the following rewritten paragraph:

means for reservation of packet transmission ~~referring~~ referring the reservation condition information received from the scheduling module in the preceding stage and the reservation request of own scheduling module and ~~transmitting~~ transmitting the result of the reservation of packet ~~transmission~~ transmission to the scheduling module in the next stage;

Please replace the paragraphs beginning at page 13, line 6, with the following rewritten paragraphs:

means for making judgment whether said future time slot has already been reserved by ~~other~~ another scheduling module;

means for making reservation of said future time slot when said future time slot is not reserved by ~~other~~

11-355382
Amendment dated 09/27/2004

09/734,695

02150024aa
Reply to office action mailed 08/03/2004

another scheduling module and putting information
~~indicative~~ indicating that said future time slot is
reserved in said reservation condition information;

Please replace the paragraph beginning at page 15, line 18, with the following
rewritten paragraph:

step of reservation of packet transmission ~~referring~~
referring the reservation condition information received
from the scheduling module in the preceding stage and the
reservation request of own scheduling module and
transmitting the result of the reservation of packet
~~transmission~~ transmission to the scheduling module in the
next stage;

Please replace the paragraphs beginning at page 16, line 6, with the following
rewritten paragraphs:

step of making judgment whether said future time
slot has already been reserved by ~~other~~ another
scheduling module;

step of making reservation of said future time slot
when said future time slot is not reserved by ~~other~~
another scheduling module and putting information
~~indicative~~ indicating that said future time slot is
reserved in said reservation condition information;

Please replace the paragraph beginning at page 16, line 27, with the following
rewritten paragraph:

11-355382
Amendment dated 09/27/2004

09/734,695

02150024aa
Reply to office action mailed 08/03/2004

reservation order varying step of varying order of said reservation by said plurality of scheduling ~~module~~ modules, and making reservation of ports to output with respect to a packet for next frame per each frame in the varied order.

Please replace the paragraph beginning at page 17, line 3, with the following rewritten paragraph:

The plurality of scheduling modules performs said reservation in an order corresponding to logical connection order relative to other modules, said reservation order varying means varies a connection topology of said plurality of scheduling modules. A plurality of scheduling ~~module~~ modules performs reservation in the order corresponding to the logical connection order with other modules. In variation of the reservation order, a plurality of scheduling modules varies connection topology.

Please replace the paragraph beginning at page 17, line 13, with the following rewritten paragraph:

The reservation order varying means includes a switch performing switching operation for varying logical connecting condition of said plurality of scheduling modules and a table storing control data for controlling switching operation of said switch. The physical connection between said plurality of scheduling ~~module~~ modules and said switch is an electrical connection or

11-355382
Amendment dated 09/27/2004

09/734,695

02150024aa
Reply to office action mailed 08/03/2004

optical connection. The table is provided in each of said plurality of scheduling modules. In the alternative, the table is provide in common for said plurality of scheduling modules.

Please replace the paragraph beginning at page 17, line 24, with the following rewritten paragraph:

The control data is data for controlling switching operation of said switch for varying time slot for initiating reservation of said plurality of scheduling modules per each frame at the leading end of each frame. The control data is data for realizing scheduling equalizing use frequency of reservation start ~~slot~~ slots for initiating said reservation by a plurality of scheduling modules. The control data is data for realizing scheduling equalizing use order and use frequency of reservation start ~~slot~~ slots for initiating said reservation by a plurality of scheduling modules.

Please replace the paragraph beginning at page 18, line 22, with the following rewritten paragraph:

Therefore, in the present invention, in order to resolve the first unfairness, the present invention takes a construction which permits variation of the connection topology between the modules. As apparatus, the reserved output port information transferred between the modules is input to the switch out of the module to vary the destination of output. The module and the switch

11-355382
Amendment dated 09/27/2004

09/734,695

02150024aa
Reply to office action mailed 08/03/2004

operates in synchronism with the frame by performing connection grant process of a plurality of time ~~slot~~ slots for varying the connection topology per frame so that all connection topology may appear.

Please replace the paragraph beginning at page 20, line 6, with the following rewritten paragraph:

The present invention will be understood more fully from the detailed description given hereinafter and from the accompanying drawings of the preferred embodiment of the present invention, which, however, should not be taken to ~~be limitative to~~ limit the invention, but are for explanation and understanding only.

Please replace the paragraph beginning at page 26, line 3, with the following rewritten paragraph:

The connection grant storage control portion 17 ~~determines~~ determines reservation order pattern of the connection grant information in the module from the reservation order pattern of the connection grant information from the pattern storage portion 18 and the physical number 23 for module identification, in synchronism with the frame pulse 21 for controlling order of writing and reading of the connection grant information 12 per time slot. The connection grant storage control portion 17 is constructed with a writing address counter 170 for generating a writing address for the memory in the connection grant storage portion 16, a

11-355382

09/734,695

02150024aa

Amendment dated 09/27/2004

Reply to office action mailed 08/03/2004

reading address counter 171 for generating a reading
address of the same, and a load data generating portion
172 as shown in Fig. 5.